

FIG. 1

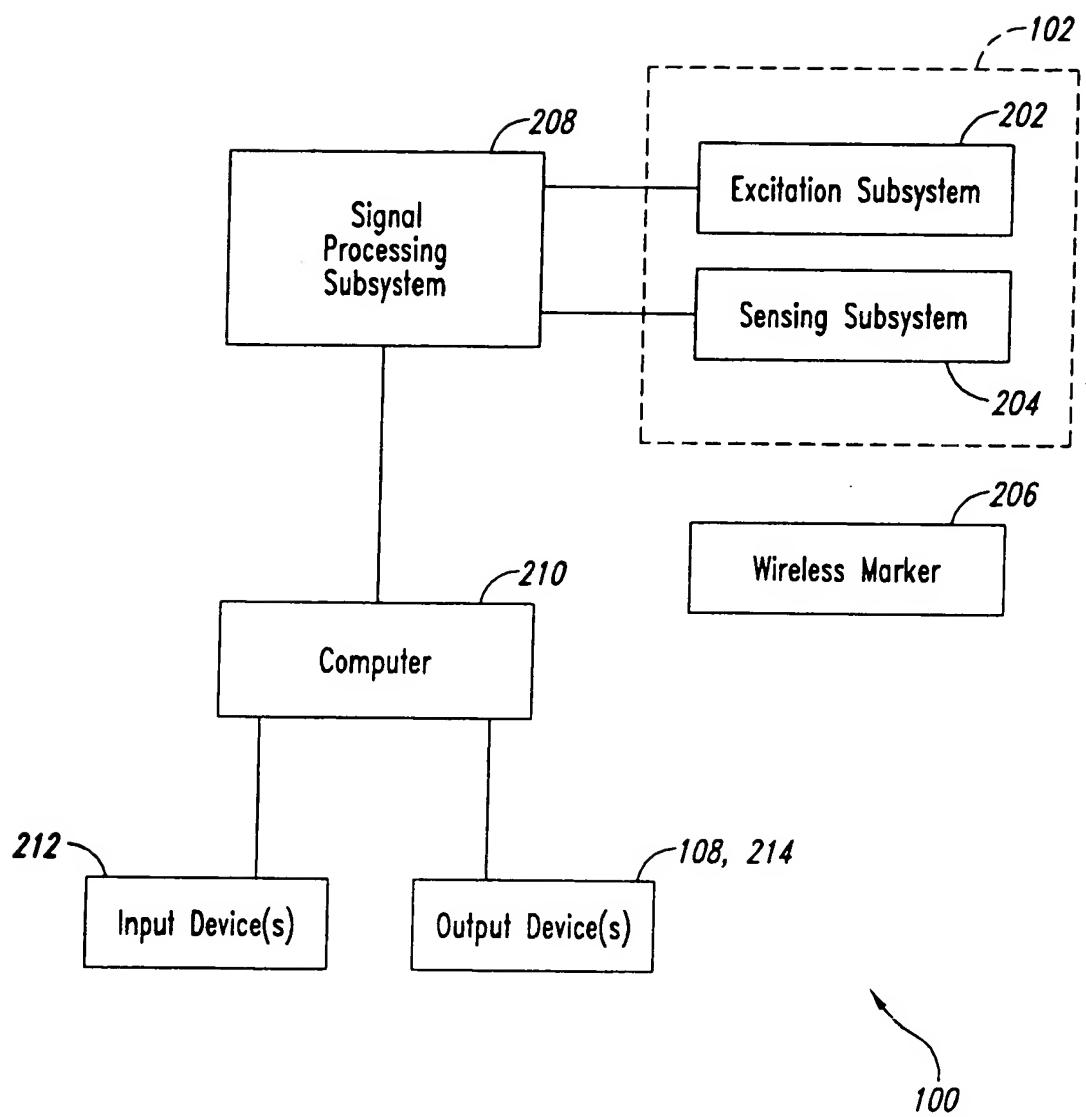


FIG. 2

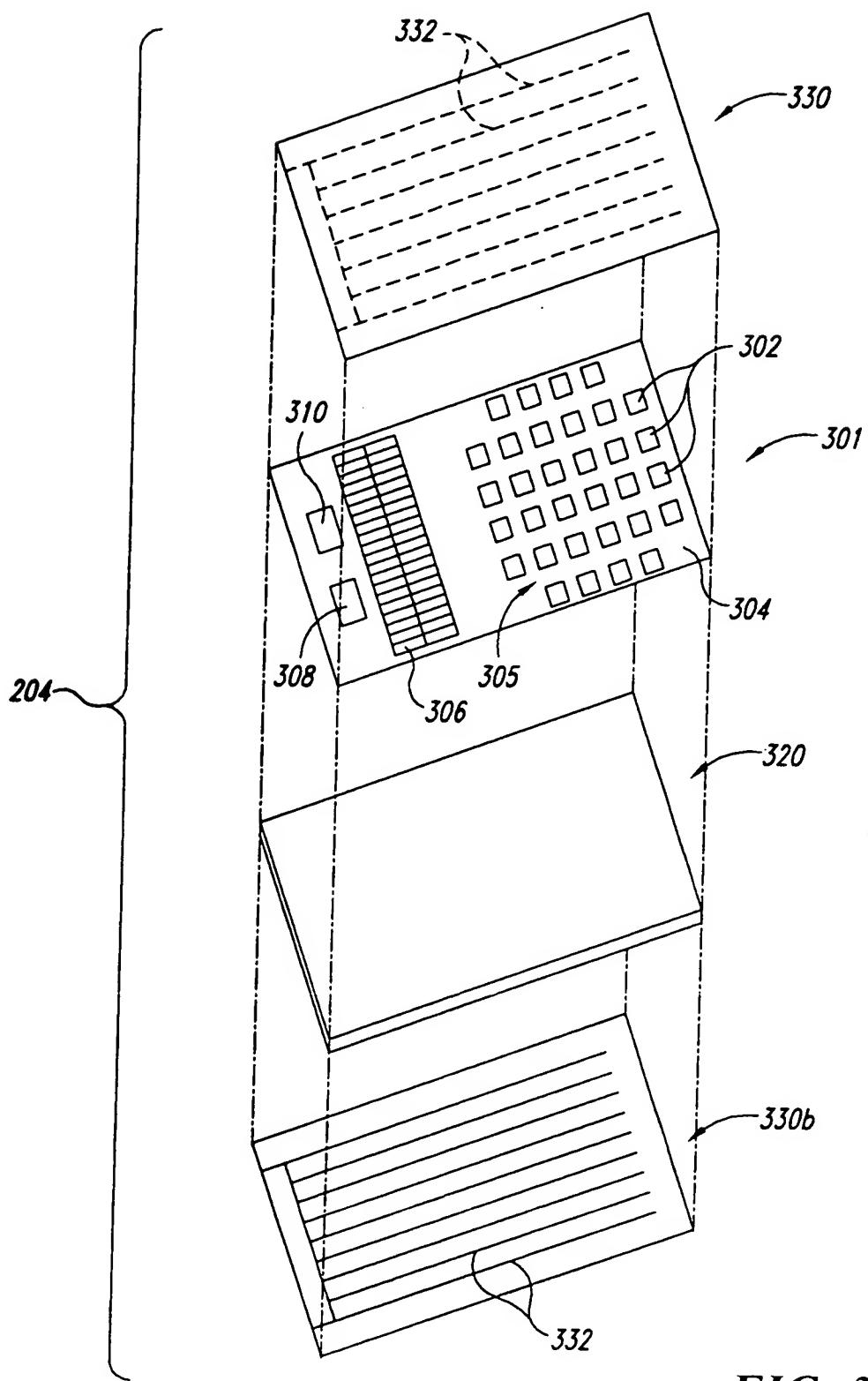


FIG. 3A

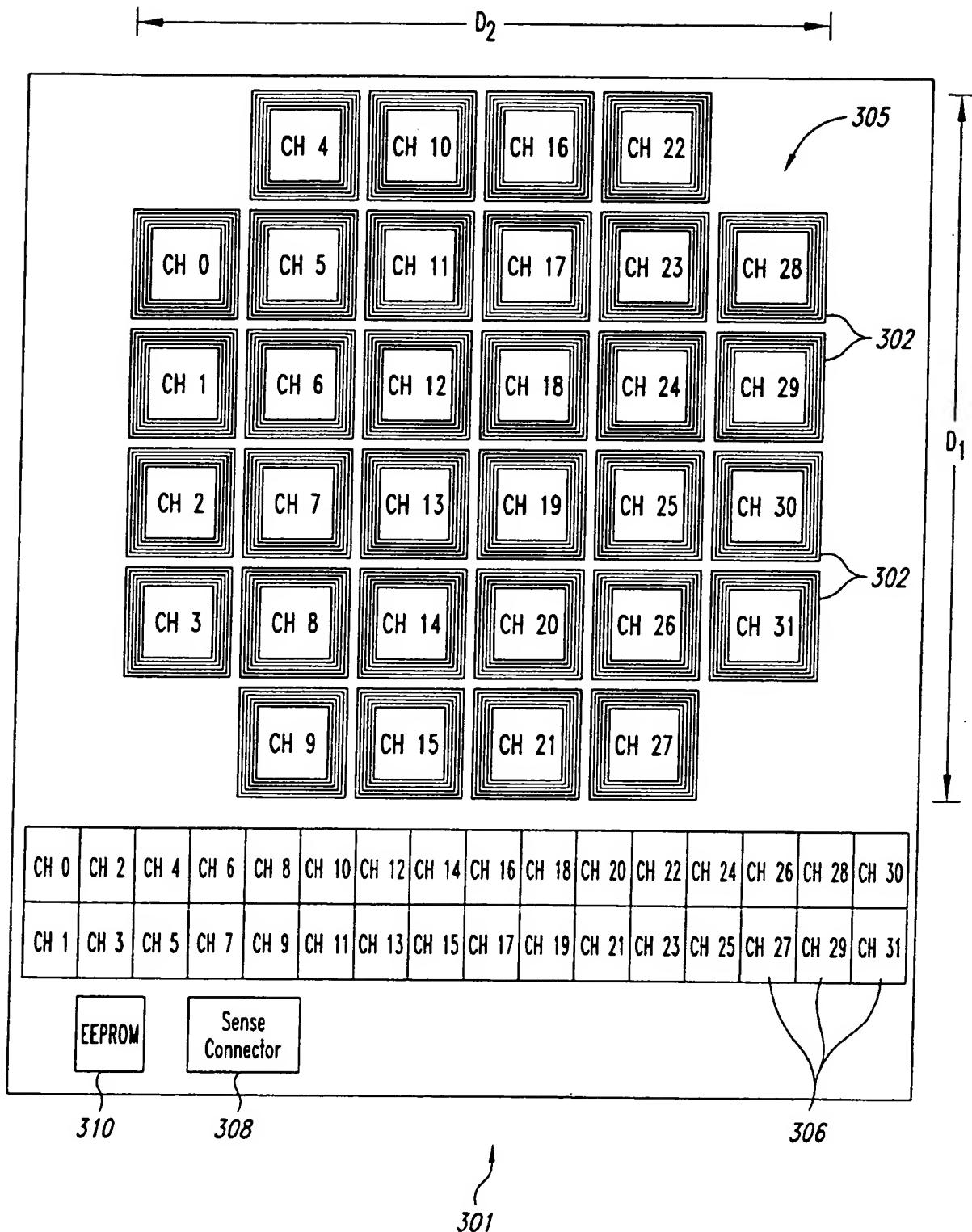
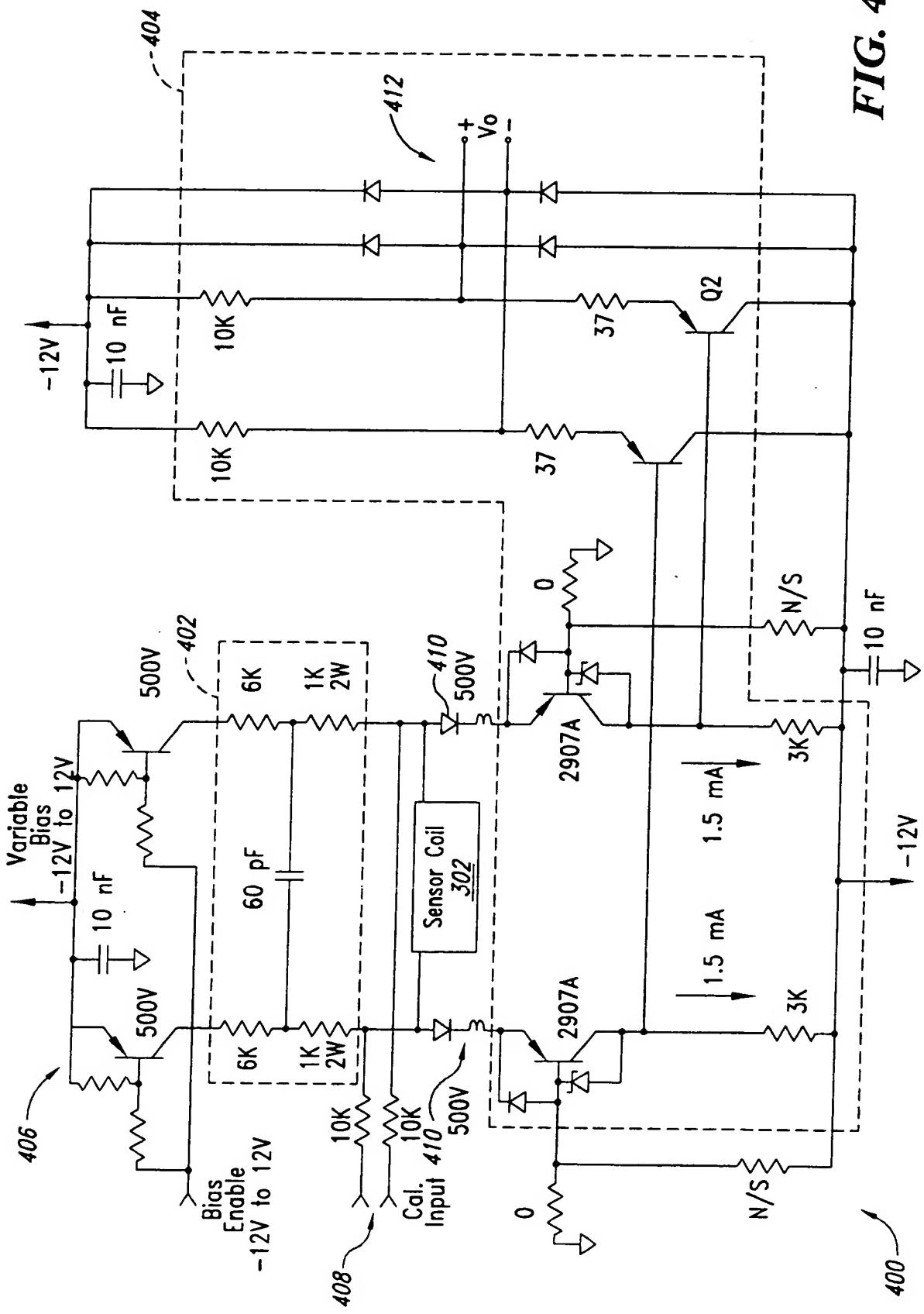


FIG. 3B



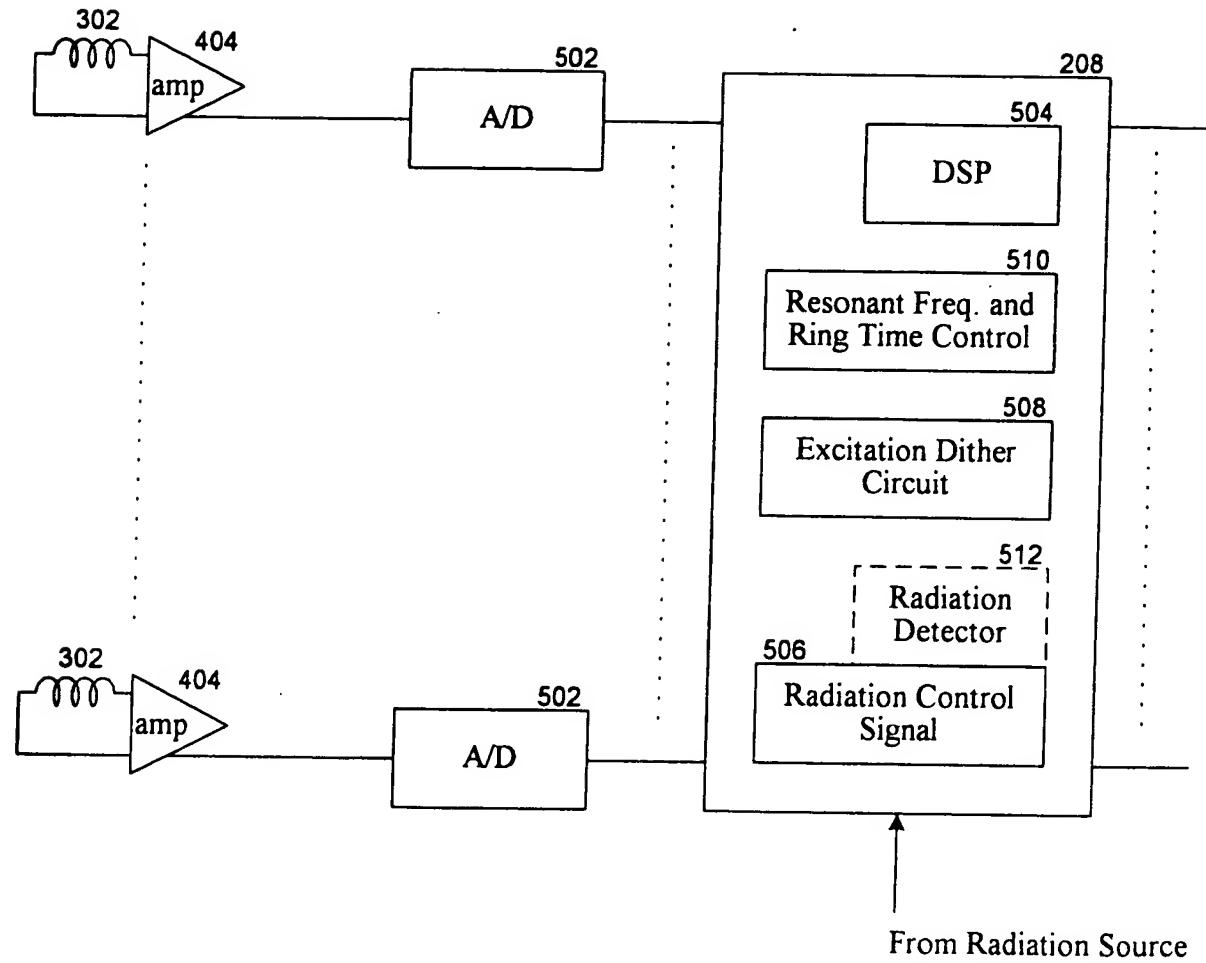


FIG. 5

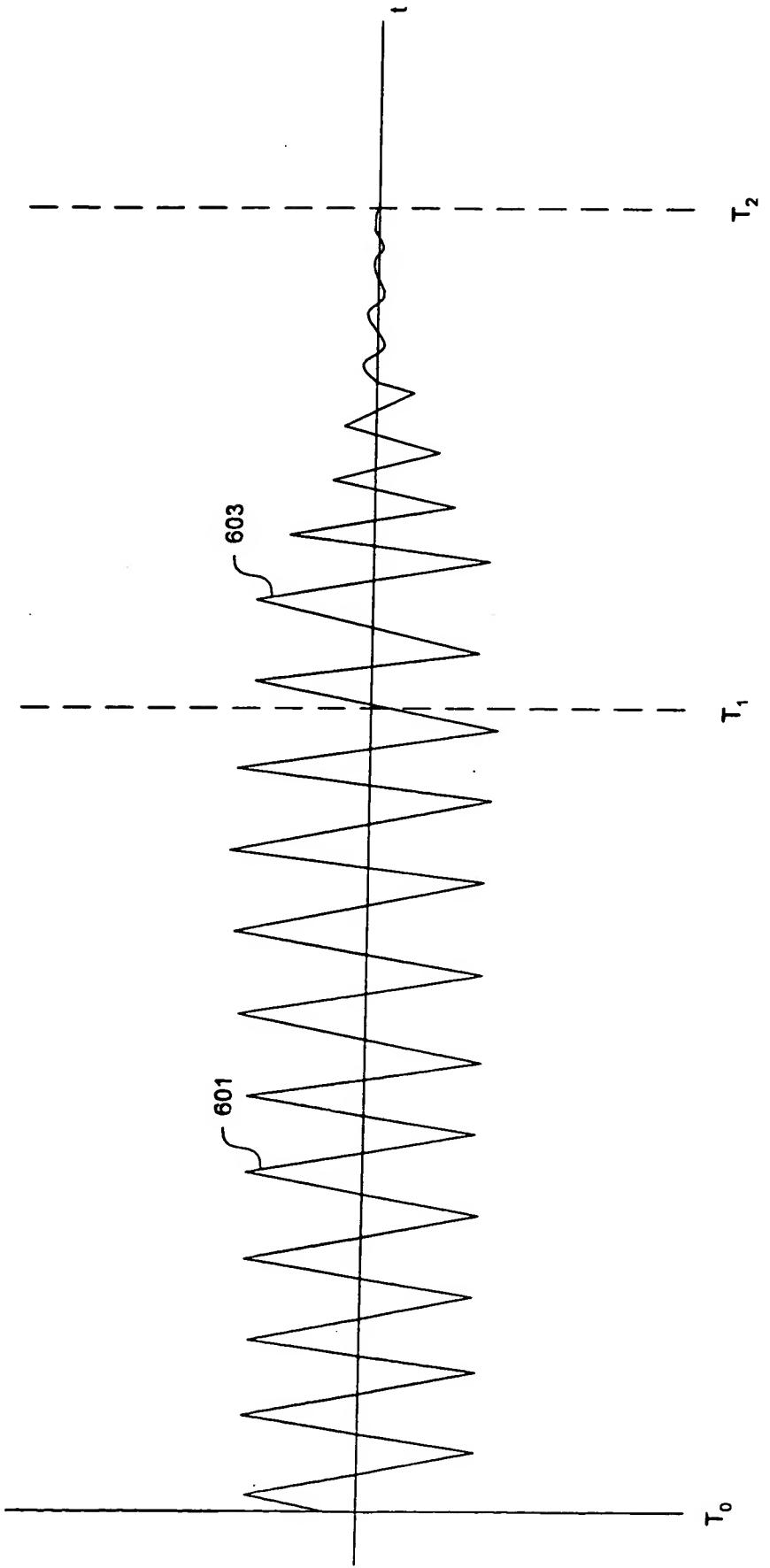


FIG. 6

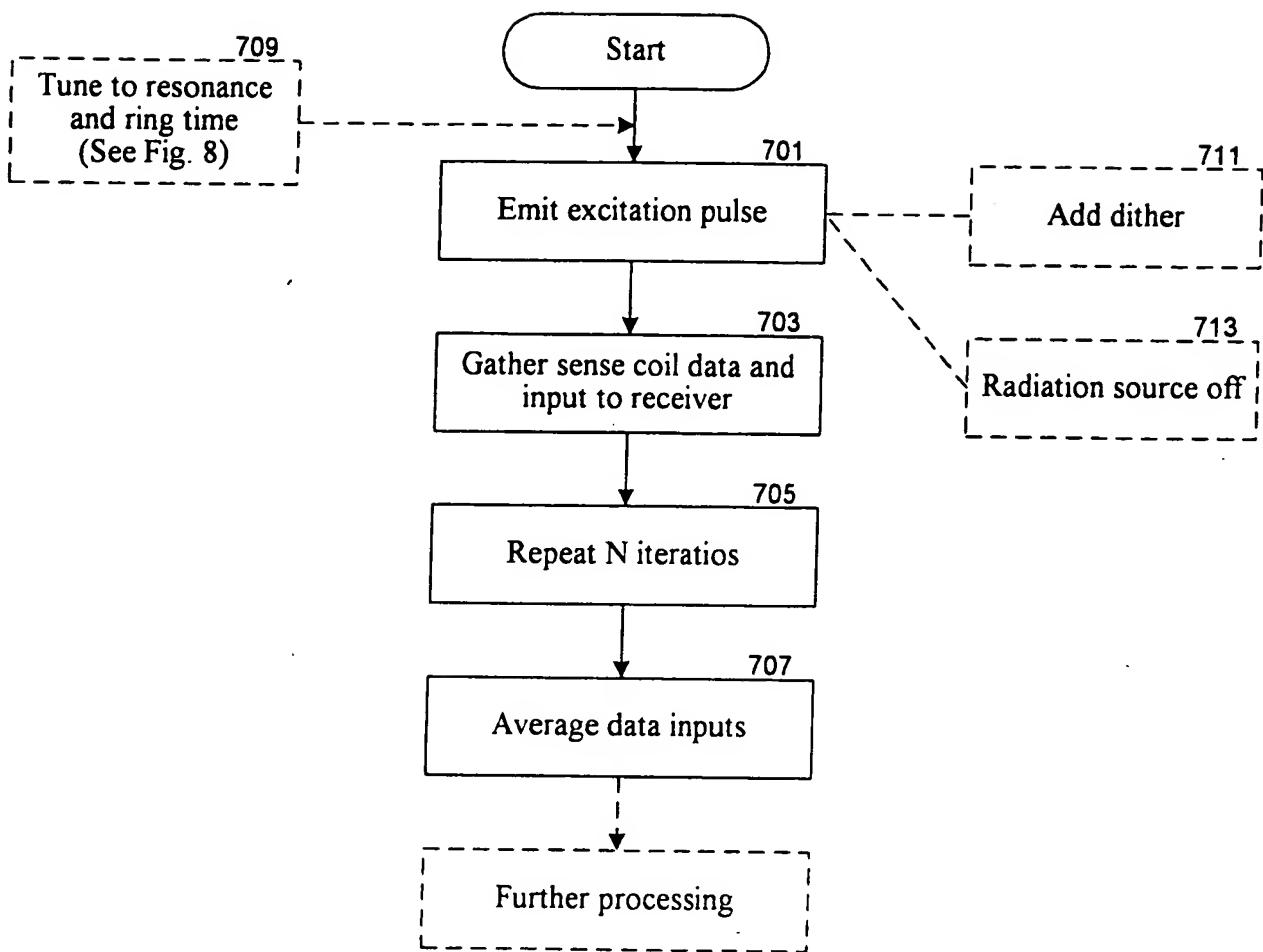


FIG. 7

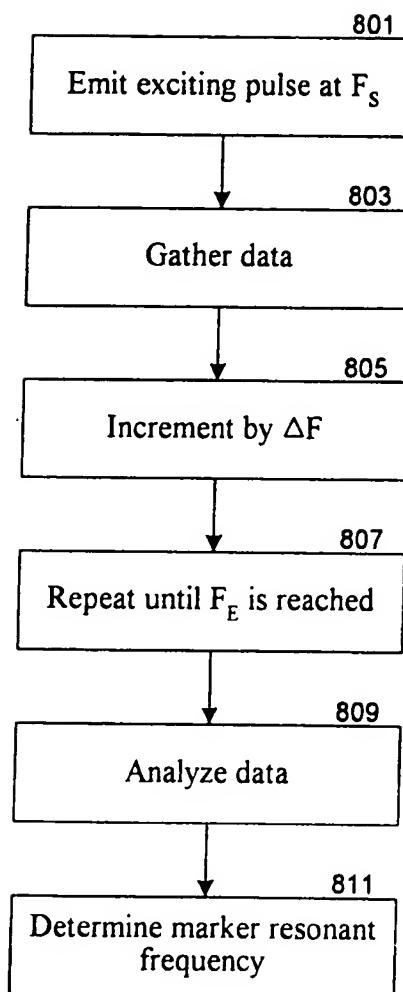


FIG. 8

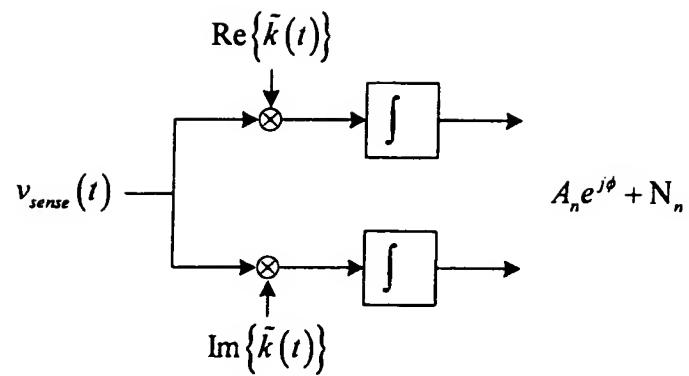


FIG. 9

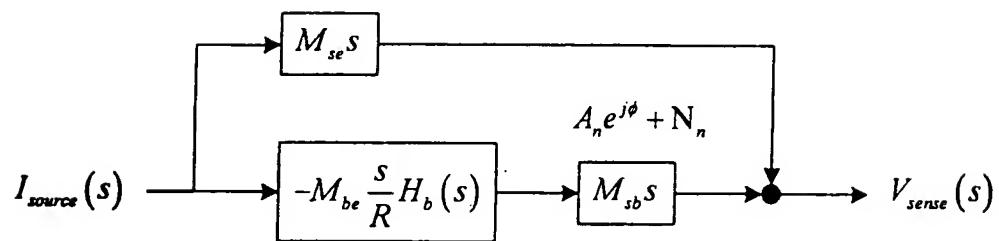


FIG. 10

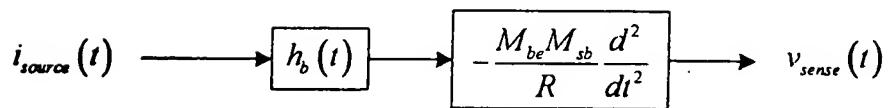


FIG. 11

Sensed Voltage: 100 kHz Beacon, 100 kHz Excitation (arbitrary scale)

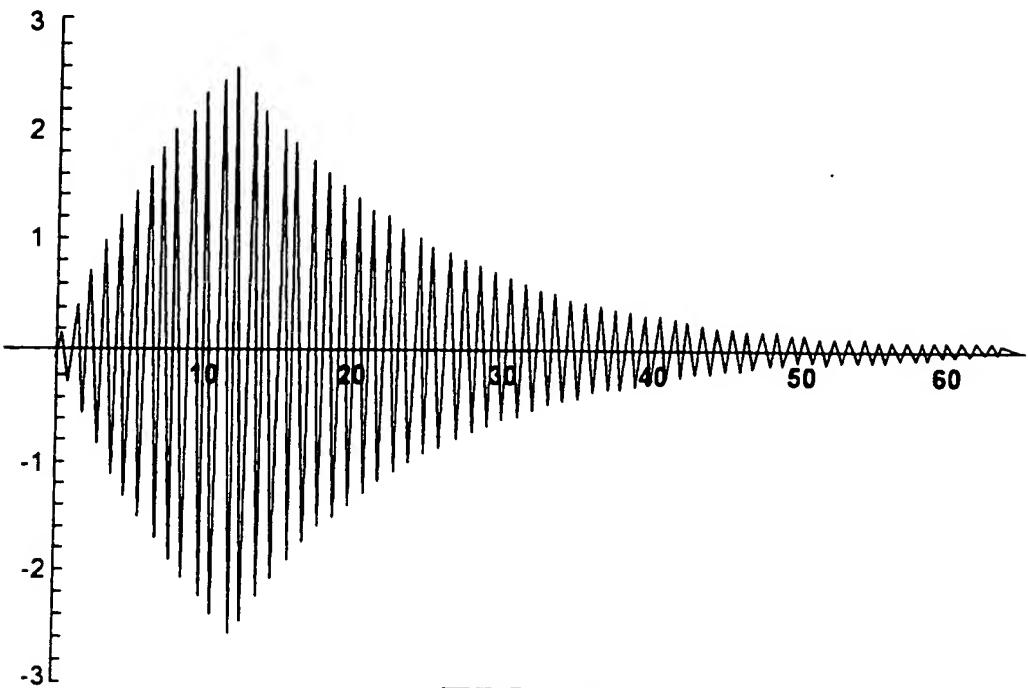


FIG. 12

Sensed Voltage: 100 kHz Beacon, 100 kHz Excitation (arbitrary scale)

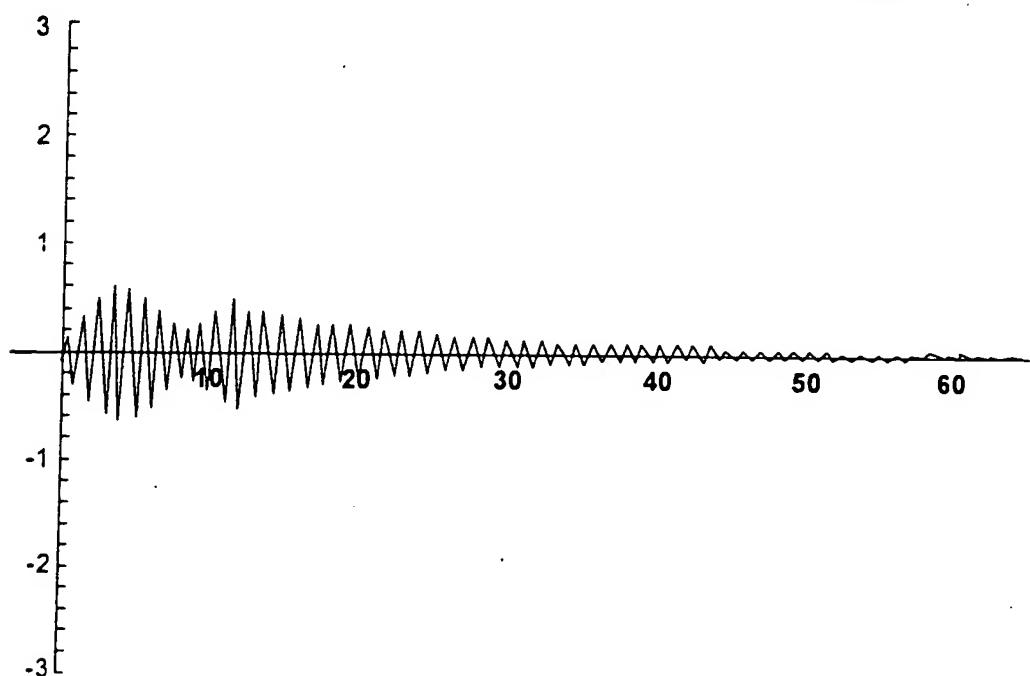


FIG. 13

Relative Sensitivity (dB) : $Q = 40$, 16 Cycle Rectangular Pulse, 32 Cycle Exponential Kernel

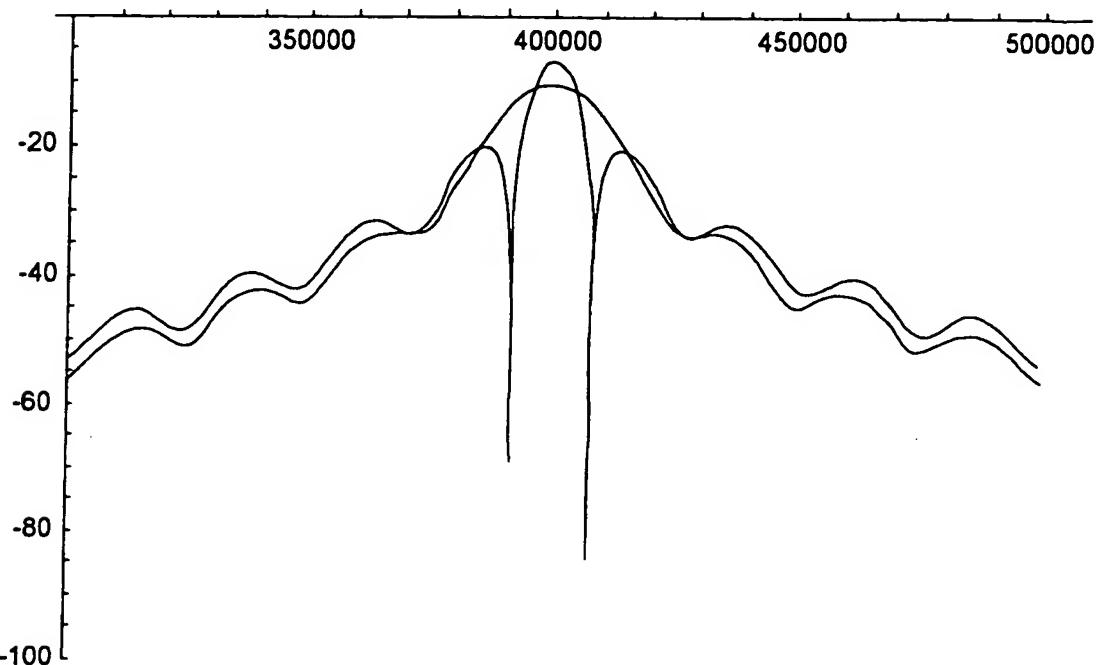


FIG. 14

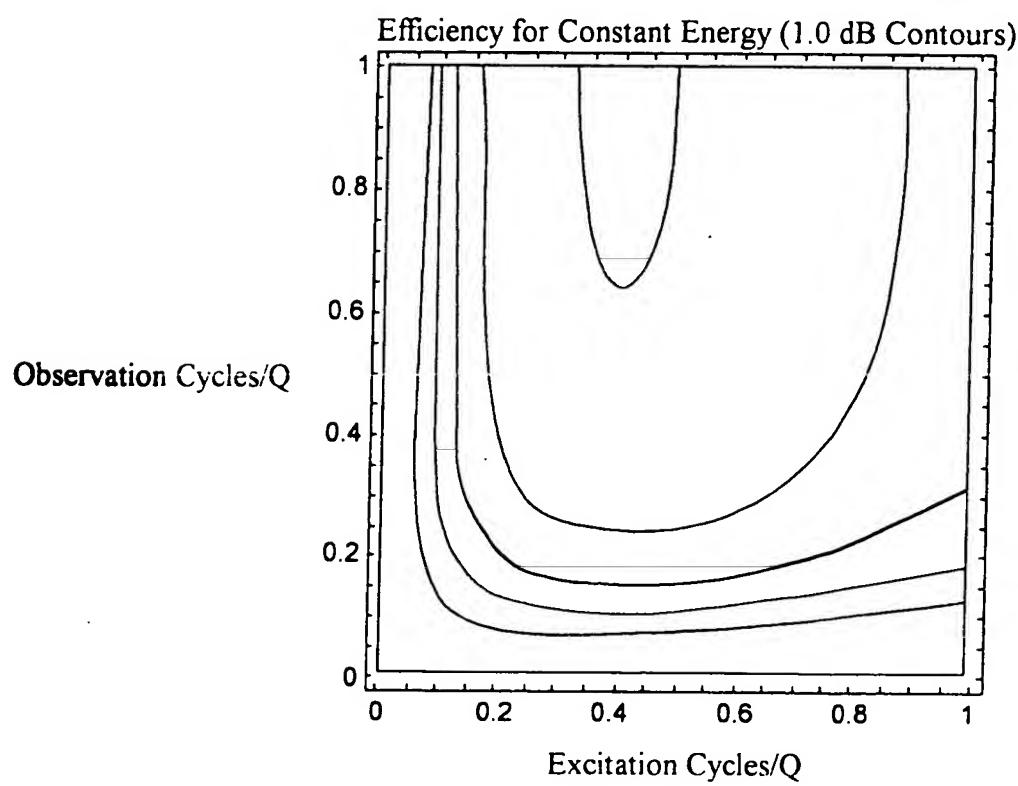


FIG. 15

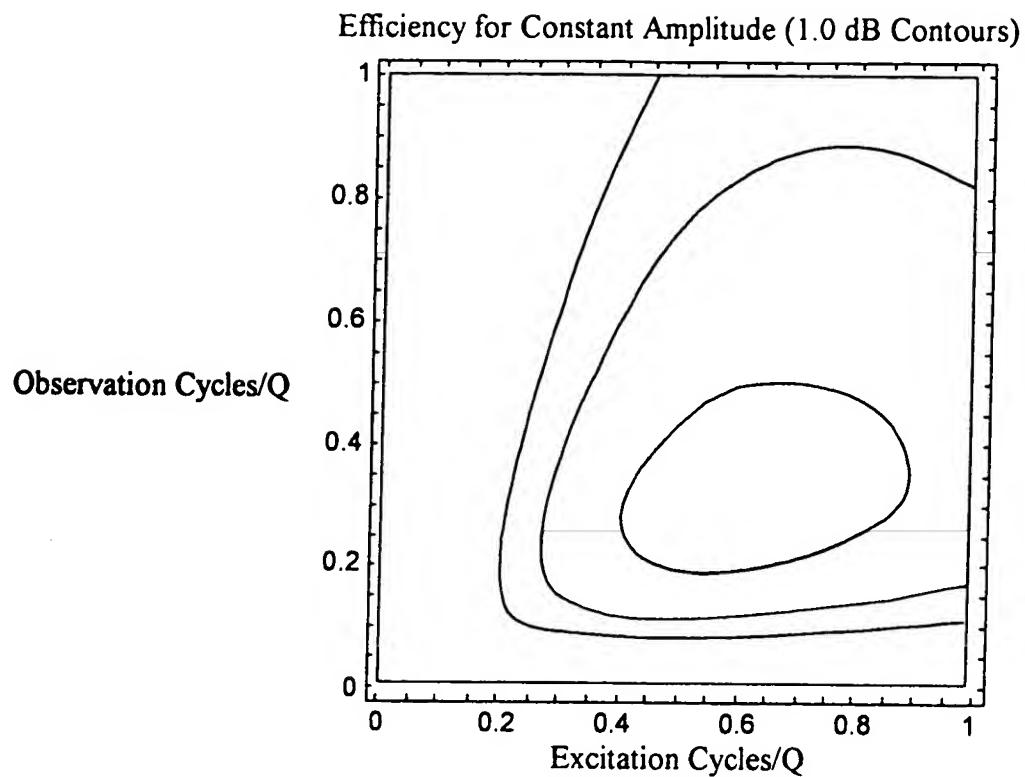


FIG. 16

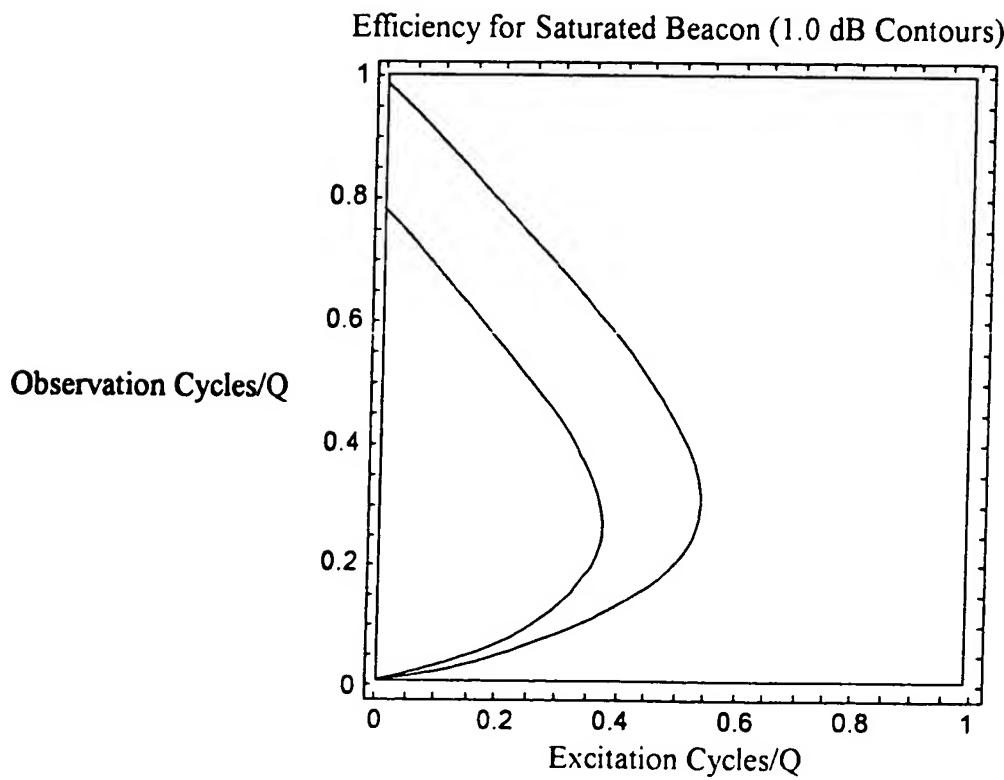


FIG. 17

Relative Sensitivity (dB) : Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Exponential Kernel

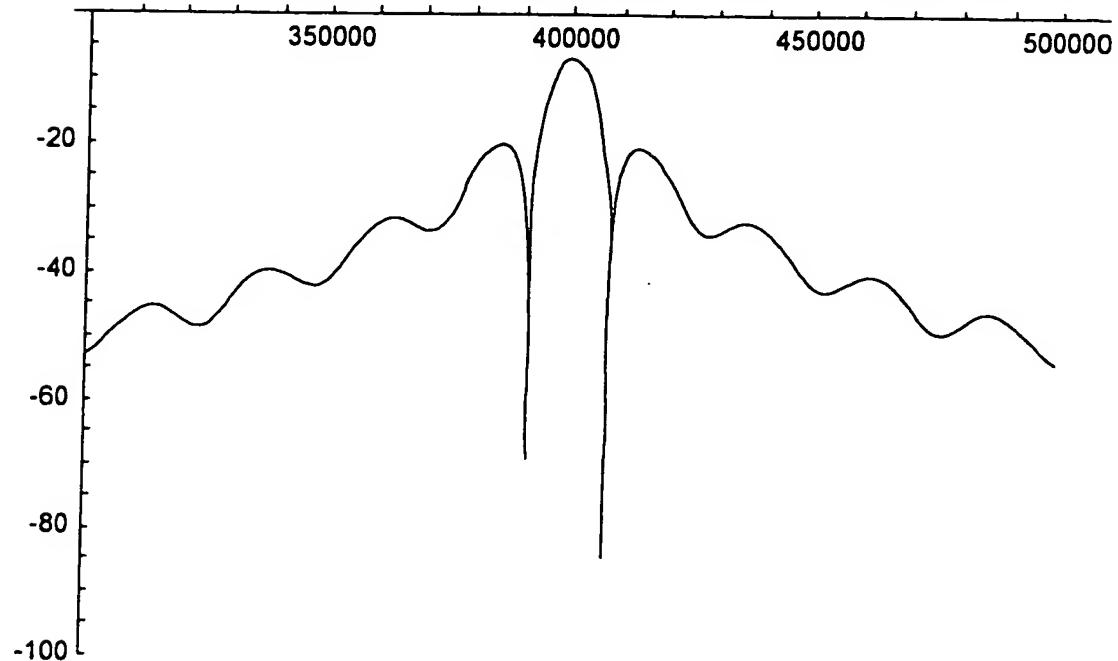


FIG. 18

Relative Sensitivity (dB) : Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Hammering Kernel

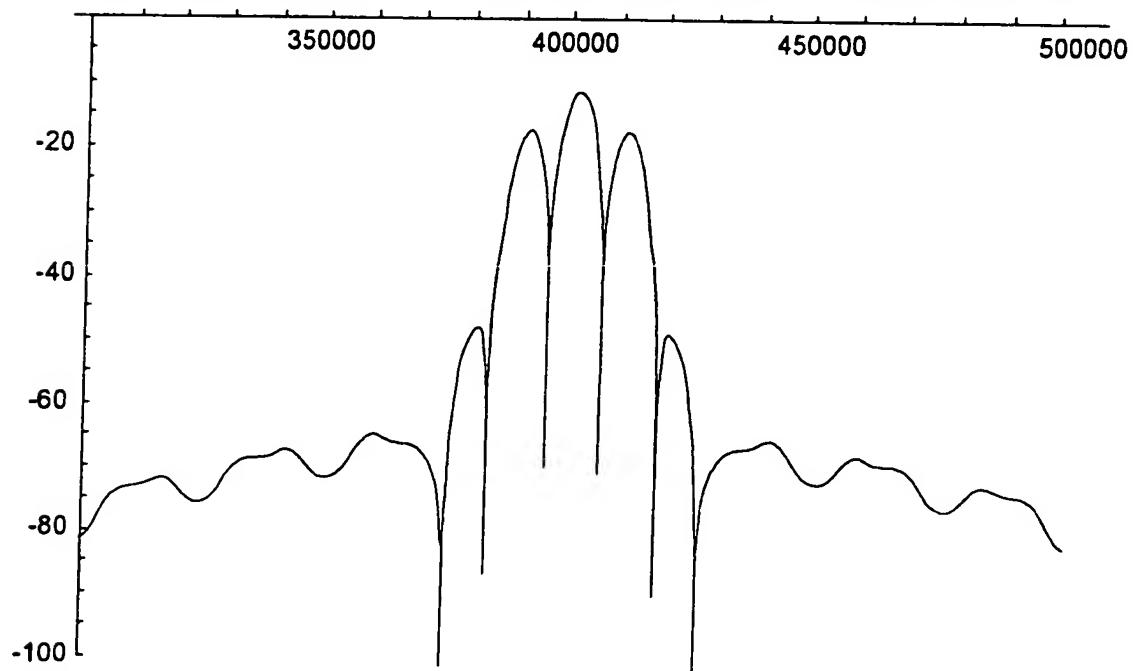


FIG. 19

Relative Sensitivity (dB) : Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Blackman Kernel

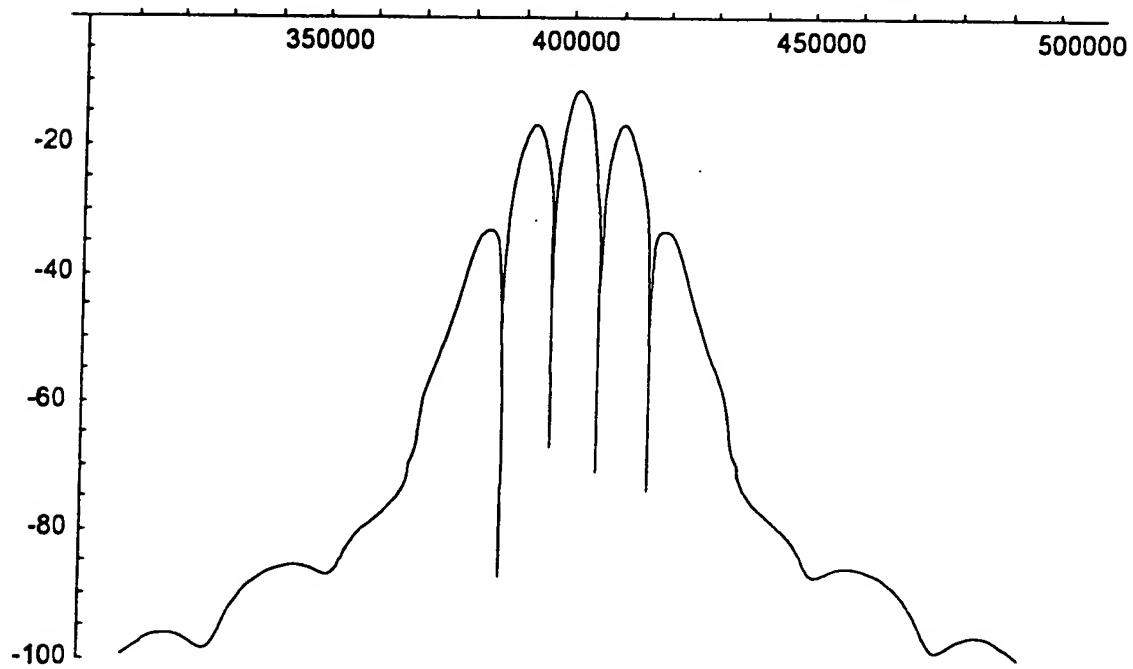


FIG. 20